SOLAR'S MOST TRUSTED



REC ALPHOX® PURE 2 SERIES

DATASHEET

COMPACT PANEL SIZE

430 WP 22.2% EFFICIENCY 20.7 W/FT²



ELIGIBLE



EXPERIENCE

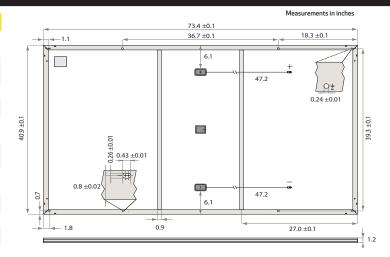
PERFORMANCE

REC ALPHX® PURE 2 SERIES

DATASHEET



GENERAL DATA	
Cell Type	132 half-cut bifacial REC heterojunction cells, with lead-free, gapless technology
Glass	0.13 in solar glass with anti-reflective surface treatment in accordance with EN12150
Backsheet	Highly resistant polymer (Black)
Frame	Anodized aluminum (Black)
Junction Box	3-part, 3 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790
Connectors	Stäubli MC4 PV-KBT4/KST4 (12AWG) in accordance with IEC 62852, IP68 only when connected
Cable	12 AWG solar cable, 47.2 in + 47.2 in in accordance with EN50618
Dimensions	$73.4 \times 40.9 \times 1.2 \text{ in } (20.8 \text{ ft}^2)$
Weight	47.8 lb
Origin	Made in Singapore



	ELECTRICAL DATA		PRODUCT CODE*: RECxxxAA Pure 2		
	Power Output - P _{max} (W _p)	400	410	420	430
	Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10
ر	Nominal Power Voltage - $V_{MPP}(V)$	41.1	41.6	42.2	42.8
	Nominal Power Current - $I_{MPP}(A)$	9.74	9.86	9.96	10.05
	Open Circuit Voltage - V _{oc} (V)	48.5	48.8	49.1	49.3
n	Short Circuit Current - I_{SC} (A)	10.60	10.67	10.74	10.81
	Power Density (W/ft²)	19.2	19.7	20.2	20.7
	Panel Efficiency (%)	20.6	21.1	21.7	22.2
	Power Output - P _{max} (W _P)	304	312	320	327
I OMN	Nominal Power Voltage - V_{MPP} (V)	38.7	39.2	39.8	40.3
	Nominal Power Current - I_{MPP} (A)	7.86	7.96	8.05	8.12
	Open Circuit Voltage - V _{oc} (V)	45.7	45.8	46.0	46.2
	Short Circuit Current - I_{SC} (A)	8.5	8.62	8.68	8.73

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000W/m^2 , temperature $77^{\circ}\text{F}(25^{\circ}\text{C})$), based on a production spread with a tolerance of P_{Max} V V_{CC} &L $_{\text{SC}}$ $\pm 3\%$ within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m^2 , temperature $68^{\circ}\text{F}(20^{\circ}\text{C})$, windspeed 3.3 ft/s(1 m/s)). *Where xxx indicates the nominal power class (P_{Max}) at STC above.

MAXIMUM RATINGS	
Operational Temperature	-40 °F - 185 °F
System Voltage	1000 V
Maximum Test Load (front)	+7000 Pa (146 lb/ft²)
Maximum Test Load (rear)	-4000 Pa (83.4 lb/ft²)
Max Series Fuse Rating	25 A
May Reverse Current	25 Δ

Available from:

* See installation manual for mounting instructions.

Design load = Test load / 1.5 (safety factor)

TEMP	ERAT	URE R	ATINGS*

Nominal Module Operating Temperature	44°C±2°C
Temperature coefficient of P _{max}	-0.24%/K
Temperature coefficient of V _{oc}	-0.24%/K
Temperature coefficient of I _{SC}	0.04%/K

*The temperature coefficients stated are linear values

DELIVERY INFORMATION

Panels per Pallet	33
Panels per 40 ft GP/high cube container	792 (24 Pallets)
Panels per 53 ft truck	858 (26 Pallets)

Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.

CERTIFICATIONS

	IEC 61215:2021; I	EC61730:2016; UL61730
	IEC 62716	Ammonia Resistance
	IEC 61701	Salt Mist (SM6)
	IEC 61215:2016	Hailstone (35mm)
	UL 61730	Fire Type 2
	IEC 62321	Lead-free acc. to RoHS EU 863/2015
	ISO 14001; ISO	9001; IEC45001; IEC62941











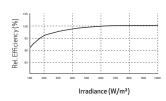
Take-e-way WEEE-compliant scheme

WARRANTY			
	Standard	REC ProTrust	
Installed by an REC Certified Professional	No	Yes	Yes
System Size	All	<25 kW	25-500 kW
Product Warranty (yrs)	20	25	25
Power Warranty (yrs)	25	25	25
Labor Warranty (yrs)	0	25	10
Power in Year 1	98%	98%	98%
Annual Degradation	0.25%	0.25%	0.25%
Power in Year 25	92%	92%	92%

The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See wy

LOW LIGHT BEHAVIOR

Typical low irradiance performance of module at STC:



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